Please enter the following claims:

1-47. (canceled)

- 48. (currently amended) A method of making a non-human transgenic <u>female mouse</u> animal, comprising the steps of:
 - (a) providing a recombinant nucleic acid according to claim 43 comprising;
 - i. a Tet operator response element;
 - ii. a nucleic acid encoding ovine $FSH\beta$ operatively associated with said Tet operator response element;
 - iii. an FSHβ promoter;
 - iv. an FSH β locus control region operatively associated with said FSH β promoter; and
 - v. a nucleic acid encoding a ligand-controllable receptor operatively associated with said FSHβ promoter, wherein said ligand-controllable receptor is a tetracycline-controllable transactivator fusion protein, and wherein tetracycline or an analog thereof acts as a ligand for said transactivator fusion protein; and wherein said receptor binds to said Tet operator response element in the presence of said ligand when expressed in a host cell; and
 - (b) introducing said nucleic acid construct into a <u>fertilized mouse</u> mammalian oocyte;
 - (c) implanting said oocyte in a pseudopregnant female mouse animal; and then
 - (d) raising said transgenic <u>female mouse</u> animal to viability from said oocyte in said host;

wherein said <u>transgenic female mouse</u> animal produces greater levels of $FSH\beta$ and greater numbers of <u>oocytes</u> gametes when administered said ligand than when not administered said ligand.

49-50. (canceled)

- 51. (original) The method of claim 48, wherein said introducing step is carried out by microinjection.
- 52. (original) The method of claim 48, wherein said nucleic acid comprises linear nucleic acid.

53-56. (canceled)

- 57. (currently amended) A method of enhancing the production of gametes oocytes in a transgenic mouse, non-human animal, comprising the steps of:
 - (a) providing a transgenic <u>mouse of claim 48, and non-human animal, said animal</u> comprising cells that contain:
 - (i) a response element;
 - (ii) a nucleic acid encoding FSH\$\beta\$ operatively associated with said response element; [[.]]
 - (iii) an FSH\$ promoter;
 - (iv) an FSHβ locus control region operatively associated with said FSHβ promoter; and
 - (v) (v) a nucleic acid encoding a ligand controllable receptor operatively associated with said FSHβ promoter, wherein said receptor binds to said response element in the presence of said ligand when expressed in a host cell;
- (b) administering said ligand to said <u>mouse animal</u> in an amount effective to (i) stimulate the production of $FSH\beta$ in said <u>mouse animal</u> above that found in a corresponding untransformed animal; and (ii) stimulate the production of <u>gametes oocytes</u> in said <u>mouse animal</u> to a level greater than that found in the corresponding untransformed <u>mouse animal</u>.

58-60. (canceled)

61. (currently amended) The method of claim <u>57</u> 60, further comprising the step of harvesting said oocytes from said animal.

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- 62. (currently amended) The method of claim $\underline{57}$ 60, wherein said administering step is followed by the step of:
- (c) mating said <u>mouse</u> animal to produce a litter of offspring therefrom, the size of said litter being greater than the size of a litter produced by the corresponding untransformed <u>mouse</u> animal.
- 63. (currently amended) The method of claim 57, wherein said administering step is carried out by feeding said ligand to said mouse animal.

64-70. (canceled)